

# **DATAPOINT HIGH CAPACITY CARTRIDGE DISKS**



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For applications requiring high storage capacity with flexible increments, Datapoint offers its 20-megabyte cartridge disk systems. These compact storage systems consist of one fixed 10-megabyte platter and a removable top-loading 10-megabyte cartridge, both of which are housed in a single drive.

The 20-megabyte disk drive employs many conveniences for the Datapoint user. Its compact design allows it to fit easily into the standard Datapoint desk-high housing. Quick removal and reloading of the top-loading cartridge is accomplished with the pull of a drawer. Also, the disk drive features sophisticated data error recovery techniques.

The disk systems are available in three models, all of which contain dual disk, single drive mechanisms. The disk controller and drive connect directly to the Datapoint processor. An optional free-standing 9375 drive extension provides an additional 20 million characters of on-line storage. The 9376 extension contains two of the drive mechanisms, for a total of 40 million characters. The 9374 drive and controller can accommodate up to seven 9375 or three 9376 drives and one 9375 extension for a maximum on-line storage capacity of 160 million bytes.

These disk systems are standard equipment on the Datapoint 4530, 4533, 4630, and 4633 systems, and find wide application in both a DATASHARE business timesharing environment, and as part of a large-scale batch processing facility. Their convenience and ease of operation make them valuable additions to any dispersed processing system.

The 9374 disk series can be used with any Datapoint processor capable of running the Disk Operating System. A 4K buffer memory is standard.

## **Functional Characteristics**

### **Capacity:**

Disks/Drive: 2  
Surfaces/Disk: 2  
Tracks/Surface: 408  
Tracks/Disk: 816  
Sectors/Track: 48  
Sectors/Disk: 39,168  
Bytes/Sector: 256  
Bytes/Disk: 10,027,008

### **Bit Density:**

4400 BPI (inner track)

### **Track Density:**

200 TPI

### **Buffer Memory Size:**

4,096 characters

### **Bit Transfer Rate (to/from buffer):**

5 MHz

### **Disk Cartridge:**

Datapoint 80428

### **Disk Timing:**

Rotation Speed: 2400 rpm

Average Latency Time: 12.5 milliseconds

### **Head Positioning:**

Track-to-Track: 10 milliseconds

Average: 35 milliseconds

Maximum: 60 milliseconds

### **Interconnection:**

Connects directly to any Datapoint processor

## **Physical Characteristics**

### **Equipment Dimensions:**

#### **Console**

Width: 53 in. (134.6 cm)  
Height: 28 in. (71.1 cm)  
Depth: 23 in. (58.4 cm)  
Weight: 230 lbs. (105 kg)

#### **Freestanding**

Width: 28 in. (71.1 cm)  
Height: 28 in. (71.1 cm)  
Depth: 30 in. (76.5 cm)  
Weight: 200 lbs. (91 kgs)

#### **Extensions**

Width: 28 in. (71.1 cm)  
Height: 28 in. (71.1 cm)  
Depth: 30 in. (76.5 cm)  
Weights:  
9375 200 lbs. (91 kgs)  
9376 300 lbs. (137 kgs)

### **Power Requirements:**

115 VAC, 50 or 60 Hz  
(240 VAC, 50 or 60 Hz optional)

### **Environment:**

55 to 100 degrees F

13 to 27 degrees C

10 to 80% relative humidity, non-condensing

## **Model Codes**

9374 Top Loading 20 Megabyte Disk  
System Console 115 VAC, 50 or 60Hz  
9375 Top Loading 20 Megabyte Disk  
System Freestanding Extension  
9376 Top Loading 40 Megabyte Disk  
System Freestanding Extension  
(Two Fixed and Two Removable Disks)  
9377 Top Loading 40 Megabyte Disk Kit  
9363 240 VAC, 50 or 60 Hz Power Option